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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO. CONFIRMATION NO.	
09/945,340	08/31/2001	Agathagelos Kyrlidis	96072CIP2 1425	
Martha Ann Fi	7590 11/01/2007 nnegan, Esq.	· ·	EXAM	INER .
Cabot Corpora	tion	PHASGE, ARUN S		
Billerica Technical Center 157 Concord Road Billerica, MA 01821-7001			ART UNIT	PAPER NUMBER
		1795		
		·		
		·	MAIL DATE	DELIVERY MODE
			11/01/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

,		Application	ı No.	Applicant(s)		
Office Action Summary		09/945,340	KYRLIDIS ET AL.			
		Examiner		Art Unit		
		Arun S. Pha	isge	1795		
Period fo	The MAILING DATE of this communication app r Reply	ears on the	cover sheet with the co	orrespondence address		
A SHO WHIC - Exter after - If NO - Failui Any r	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DATE as ions of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. Period for reply is specified above, the maximum statutory period were to reply within the set or extended period for reply will, by statute, eply received by the Office later than three months after the mailing and patent term adjustment. See 37 CFR 1.704(b).	ATE OF THI 36(a). In no even will apply and will , cause the applic	S COMMUNICATION t, however, may a reply be time expire SIX (6) MONTHS from t ation to become ABANDONED	l. ely filed he mailing date of this communication. 0 (35 U.S.C. § 133).		
Status						
2a) <u>□</u> 3) <u>□</u>	Responsive to communication(s) filed on <u>06 Au</u> This action is FINAL . 2b) This Since this application is in condition for allowan closed in accordance with the practice under E	action is no	or formal matters, pro			
Dispositi	on of Claims					
5) □ 6) ☑ 7) □ 8) □ Applicati 9) □ 10) □	Claim(s) 5,11-76 and 78-82 is/are pending in the 4a) Of the above claim(s) 11-15 is/are withdraw Claim(s) is/are allowed. Claim(s) 5, 16-76, 78-82 is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction and/or on Papers The specification is objected to by the Examiner The drawing(s) filed on is/are: a) access applicant may not request that any objection to the content of the content	vn from cons r election red r. epted or b) drawing(s) be	ideration. quirement.] objected to by the E held in abeyance. See	37 CFR 1.85(a).		
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
	nder 35 U.S.C. § 119					
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
2) Notice (3) Notice	e of References Cited (PTO-892) of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO/SB/08) No(s)/Mail Date	Ę	I) Interview Summary (Paper No(s)/Mail Dat) Notice of Informal Pa) Other:	e		

DETAILED ACTION

The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

Claim Rejections - 35 USC § 103

Claims 5, 16, 19, 21, 28, 31, 33, 39, 42, 44, 51, 53 and new claims 80-82 are rejected under 35 U.S.C. 103(a) as being unpatentable over Stalling in view of Japanese patent 04-346830 of record for reasons of record.

Claims 5, 16, 19, 21, 28, 31, 33, 39, 42, 44, 51, 53 and new claims 80-82 rejected under 35 U.S.C. 103(a) as being unpatentable over Japanese patent 58-041351 in view of Stalling of record for reasons of record.

The Japanese patent discloses the use of carbon microbeads, having a range of sizes including the claimed range, wherein the microbeads has the organic compounds attached by chemical modification (see abstract).

The reference fails to disclose the same types of organic compounds. The Stalling patent teaches the use of similar organic materials attached to a carbon material by chemical modification (see fig. 10B).

It would have been obvious to one having ordinary skill in the art at the time the invention was made to modify the disclosure of the Japanese patent with the

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teachings of the Stalling patent, because the Stalling patent teaches the attachment of different organic compounds to carbonaceous material.

Claims 17, 29 and 40 are rejected under 35 U.S.C. 103(a) as being unpatentable over Stalling in view of Japanese '830 as applied to claims above, and further in view of Kusano of record for reasons of record.

Claims 17, 29, and 40 are rejected under 35 U.S.C. 103(a) as being unpatentable over Japanese patent 58-041351 in view of Stalling as applied to claims above, and further in view of Kusano of record for reasons of record.

Claims 18, 20, 22-27, 30, 32, 34-38, 41, 43, 45-50, 52, 54-76, 78-79 are rejected under 35 U.S.C. 103(a) as being unpatentable over Stalling in view of '830 as applied to claims above, and further in view of Boes of record for reasons of record.

Claims 18, 20, 22-27, 30, 32, 34-38, 41, 43, 45-50, 52, 54-76, 78-79 are rejected under 35 U.S.C. 103(a) as being unpatentable over Japanese patent 58-041351 in view of Stalling as applied to claims above, and further in view of Boes of record for reasons of record.

Response to Arguments

Applicant's arguments filed 8/6/07 have been fully considered but they are not persuasive.

Applicants argue that the examiner has not explained how the attachment of fullerene to the organic compound as disclosed by the Stalling patent can be accomplished by the attachment to a carbon particle having a greater size as taught by the Japanese patent. The carbon particle and the fullerene are carbon particles and an organic compound attaching to the fullerene would attach to a bigger carbon particle with the same chemical bonds, since they are both carbon particles.

With regards to the secondary references, applicants argue that the different attachments of organic compounds to the fullerenes is nowhere taught by the Stalling patent. The secondary references teach the attachment of different organic compounds attached by chemical modification to a carbon substrate.

Accordingly, it would have been obvious to one having ordinary artisan to modify the disclosure of the Stalling patent to utilize other organic compounds to Art Unit: 1795

attach to the carbon material, because the secondary references teach the attachment of other organic material to carbon substrates.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Arun 5. Phasge whose telephone number is (571) 272-1345. The examiner can normally be reached on MONDAY-THURSDAY, 7:30-6:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nam X. Nguyen can be reached on (571) 272-1342. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Arun S. Phasge Primary Examiner Art Unit 1795